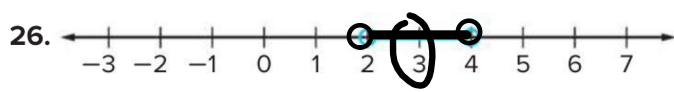
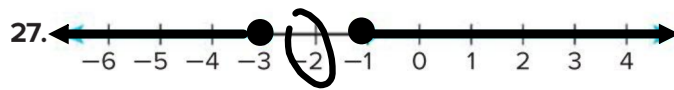


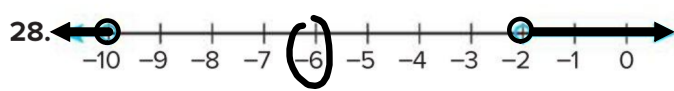
Write an open sentence involving absolute value for each graph.



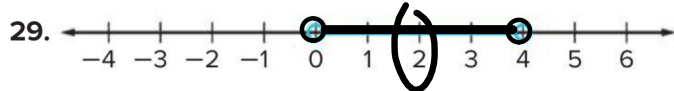
$|x - 3| < 1$



$|x + 2| \geq 1$



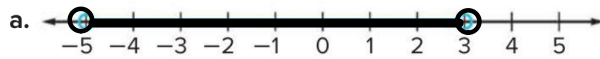
$|x + 6| > 4$



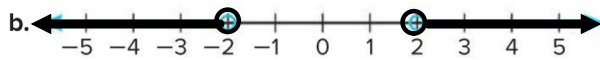
$|x - 2| < 2$

Match each open sentence with the graph of its solution set.

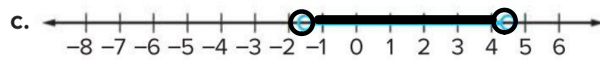
32.  $|x| > 2$      B    



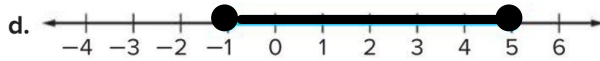
33.  $|x - 2| \leq 3$      D    



34.  $|x + 1| < 4$      A    



35.  $|-x + 1.5| < 3$      C    



**USE A MODEL** Express each statement using an inequality involving absolute value. Then solve and graph the absolute value inequality.

36. The meteorologist predicted that the temperature would be within  $3^\circ$  of  $52^\circ\text{F}$ .

$|x - m| \leq d$

$d \ m$

$|x - 52| \leq 3$

$x - 52 \leq 3 \quad \text{And} \quad x - 52 \geq -3$

$x \leq 55 \quad \text{And} \quad x \geq 49$

$49 \leq x \leq 55$

